

Docket No. 50-155

AUG 26 1977

DISTRIBUTION

Docket
NRC PDR
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ORB #2 Reading
DKDavis
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OELD
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DEisenhut

TJCarter
TBAbernathy
JRBuchanan
ACRS (16)

Licensee

Gentlemen:

The NRC is presently preparing a summary of radioactive effluents released from commercial nuclear power plants during 1976. The report will be similar to NUREG-0218, "Radioactive Materials Released from Nuclear Power Plants (1975)".

In order to verify the accuracy of the information before its publication, a draft copy of the data with respect to your plant(s) is enclosed for your review. We would appreciate receiving your comments and suggested changes by September 16, 1977. If there are changes to the enclosure that result from other than our transcription error, we request that you file an amendment to your semi-annual reports which includes a reason for the change. Also, please provide answers to any questions attached to or on the enclosed data sheets, the name and telephone number of the individual we should contact in the event that we find it necessary to clarify your comments in answer to this request. Please provide a written response even if no changes to the data are required. Responses should be addressed to:

U. S. Nuclear Regulatory Commission
Office of Management Information & Program Control
Operating Data Branch, 12105 MNBB
Washington, D. C. 20555

Any questions should be referred to T. R. Decker (301-492-7735). A copy of the final report will be sent to you.

Sincerely,

Don K. Davis, Acting Chief
Operating Reactors Branch #2
Division of Operating Reactors

Enclosure:
Draft Copy of Data

cc w/enclosure:
See next page

8101358-117

OFFICE	DOR:ORB #2	DOR:ORB #3	DOR:ORB #2			
SURNAME	EAReesves:ro	CParrish	DKDavis			
DATE	8/26/77	8/26/77	8/26/77			

Misc
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Consumers Power Company

- 2 -

August 26, 1977

cc w/enclosure:

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Grand Rapids, Michigan 49503

Charlevoix Public Library
107 Clinton Street
Charlevoix, Michigan 49720

FACILITY: BIG ROCK POINT 1
 TYPE: BWR
 LOCATION: 4 MI NE CHARLEVOIX MI
 COOLING WATER SOURCE: LAKE MICHIGAN

DOCKET NO: 50-155
 LICENSED POWER (MWT): 240.0 0.0 0.0
 INITIAL CRITICALITY: 09/27/62

OPERATION

GROSS THERMAL GENERATION	830079.0	MWHT
NET ELECTRICAL	244492.9	MWHE
THERMAL CAPACITY FACTOR (DURING COMMERCIAL OPERATION)	39.4	PER CENT

SUMMARY OF EFFLUENTS

AIRBORNE

A) TOTAL NOBLE GASES	2.18E+04	CURIES
B) TOTAL I-131	1.61E-02	CURIES
C) TOTAL HALOGENS (INCLUDING I-131)	2.29E-02	CURIES
D) TOTAL PARTICULATES	4.14E-02	CURIES
E) TOTAL TRITIUM	9.44E+00	CURIES

LIQUID

A) TOTAL MIXED FISSION AND ACTIVATION PRODUCTS	1.34E+00	CURIES
B) TOTAL TRITIUM	4.02E+00	CURIES
C) DISSOLVED NOBLE GASES	0.0	CURIES
D) VOLUME OF LIQUID WASTE RELEASED	8.56E+05	LITERS
E) VOLUME OF DILUTION WATER	9.95E+10	LITERS

SOLID WASTE

A) VOLUME	2.93E+01	CUBIC METERS
B) ACTIVITY	5.1E+04	CURIES
C) NUMBER OF SHIPMENTS	1.20E+01	

** IF SUMMARY
 VALUES ARE
 DIFFERENT THAN
 THE SUM OF
 ISOTOPES PLEASE
 EXPLAIN DISCREPANCY.*

AIRBORNE EFFLUENTS (CURIES)

NOBLE GAS

KR-83M	6.01E+02
KR-85	6.67E+01
KR-85M	1.16E+03
KR-87	3.31E+03
KR-88	2.73E+03
KR-89	2.45E+02
KR-90	1.11E+02
KR-91	1.00E+00
XE-131M	1.08E+01
XE-133	2.85E+03
XE-133M	9.15E+01
XE-135	4.55E+03
XE-135M	9.24E+02
XE-137	4.29E+02
XE-138	4.53E+03
XE-139	1.65E+02
XE-140	9.63E+00

HALOGENS

I-131	1.61E-02
I-133	6.81E-03

PARTICULATES

MN-54	6.37E-04
Cl-60	6.06E-03
TG-99M	3.74E-02
CS-134	1.18E-02
CS-137	2.01E-02
BA/LA-140	2.76E-03
UNIDENTIFIED	2.43E-03

OTHER GASES

N-13	1.06E+03
TRITIUM	
H-3	9.44E+00

← MEASURED OR CALCULATED?

LIQUID EFFLUENTS (CURIES)

NA-24	3.04E-05
MN-54	4.17E-02
CO-58	2.61E-03
FE-59	2.28E-03
CO-60	2.55E-01
ZN-65	1.34E-02
SR-89	3.92E-04
SR-90	1.04E-03
CS-134	2.06E-01
CS-137	5.62E-01
UNIDENTIFIED	2.51E-01
TRITIUM	
H-3	4.02E+00